Fig.1

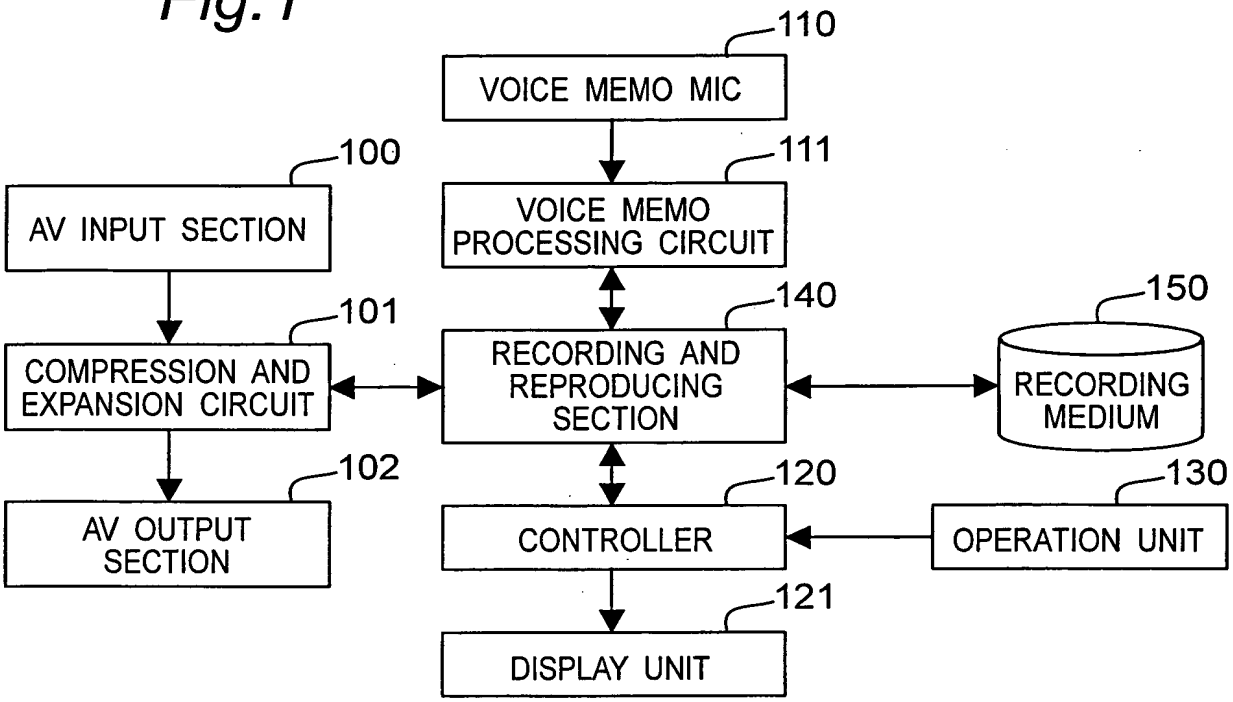

110
VOICE MEMO MIC
100
AV INPUT SECTION
111
VOICE MEMO PROCESSING CIRCUIT
101
COMPRESSION AND EXPANSION CIRCUIT
140
RECORDING AND REPRODUCING SECTION
150
RECORDING MEDIUM
102
AV OUTPUT SECTION
120
CONTROLLER
130
OPERATION UNIT
121
DISPLAY UNIT

Fig.2

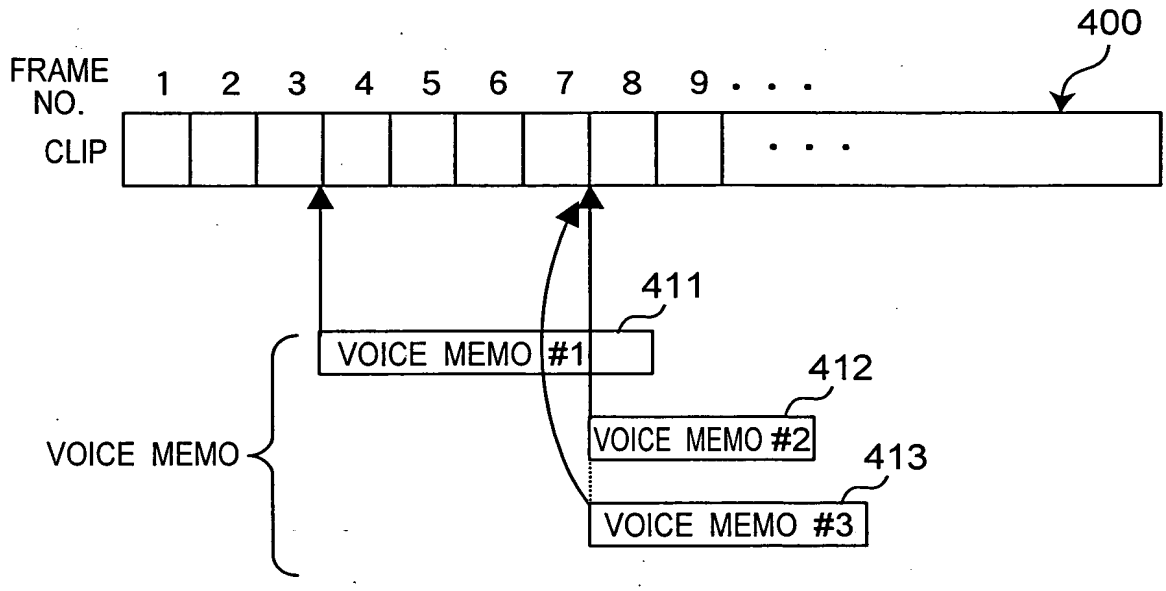
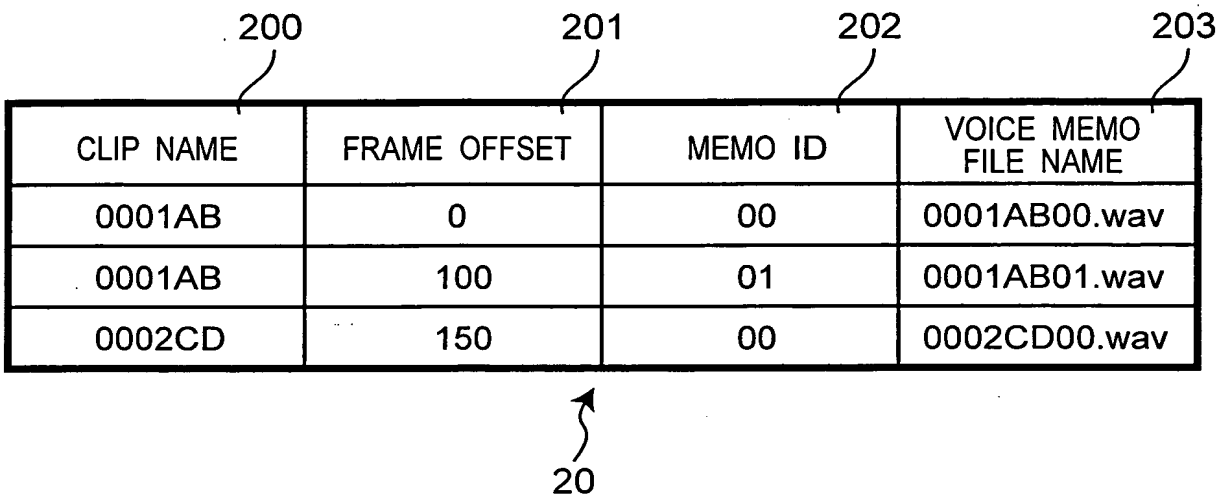
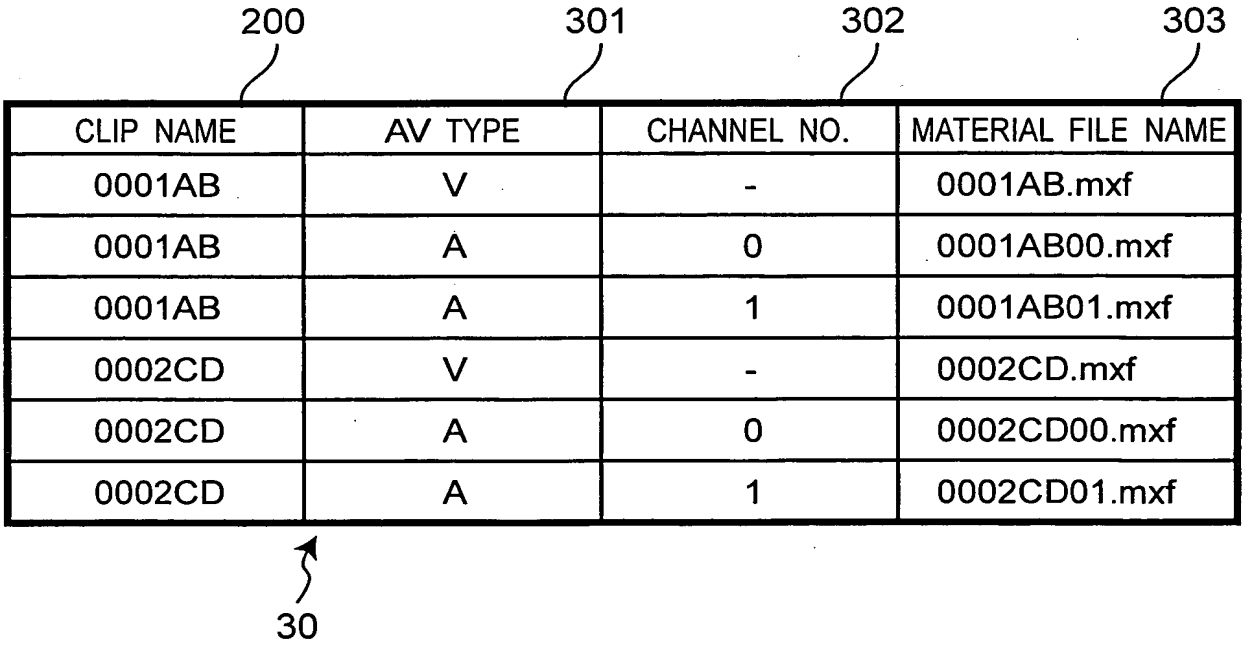

400
FRAME NO.
1 2 3 4 5 6 7 8 9 . . .
CLIP
411
VOICE MEMO #1
412
VOICE MEMO #2
413
VOICE MEMO #3
VOICE MEMO

Fig.3



CLIP NAME	FRAME OFFSET	MEMO ID	VOICE MEMO FILE NAME
0001AB	0	00	0001AB00.wav
0001AB	100	01	0001AB01.wav
0002CD	150	00	0002CD00.wav

Fig.4



CLIP NAME	AV TYPE	CHANNEL NO.	MATERIAL FILE NAME
0001AB	V	-	0001AB.mxf
0001AB	A	0	0001AB00.mxf
0001AB	A	1	0001AB01.mxf
0002CD	V	-	0002CD.mxf
0002CD	A	0	0002CD00.mxf
0002CD	A	1	0002CD01.mxf

Fig.5

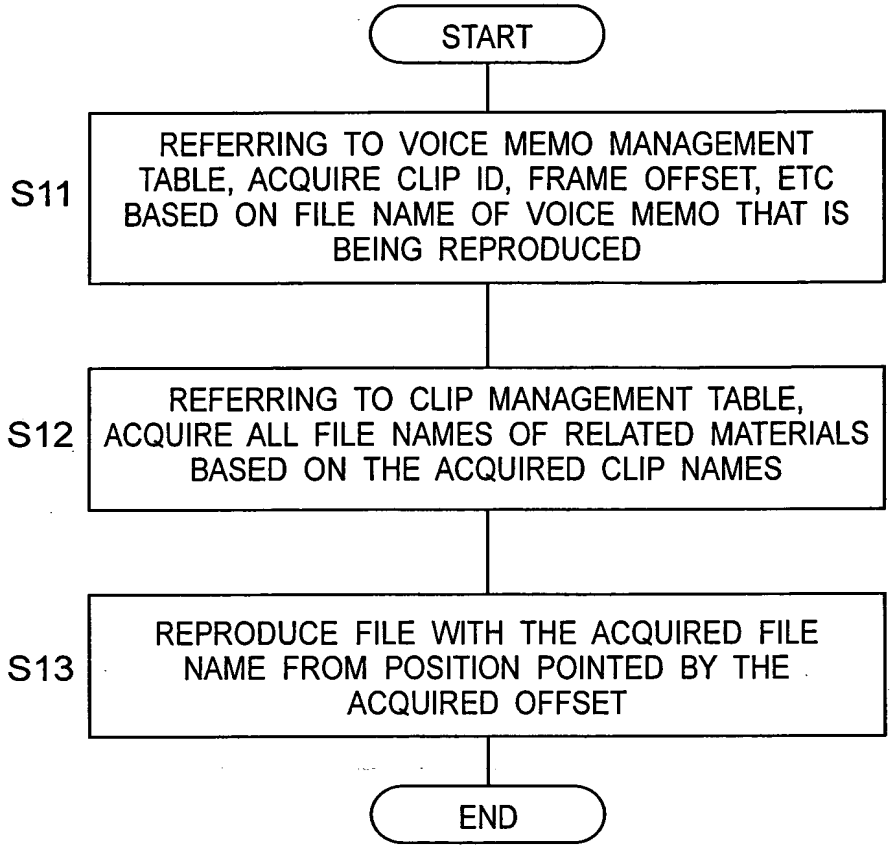

START
S11
REFERRING TO VOICE MEMO MANAGEMENT TABLE, ACQUIRE CLIP ID, FRAME OFFSET, ETC BASED ON FILE NAME OF VOICE MEMO THAT IS BEING REPRODUCED
S12
REFERRING TO CLIP MANAGEMENT TABLE, ACQUIRE ALL FILE NAMES OF RELATED MATERIALS BASED ON THE ACQUIRED CLIP NAMES
S13
REPRODUCE FILE WITH THE ACQUIRED FILE NAME FROM POSITION POINTED BY THE ACQUIRED OFFSET
END

Fig.6

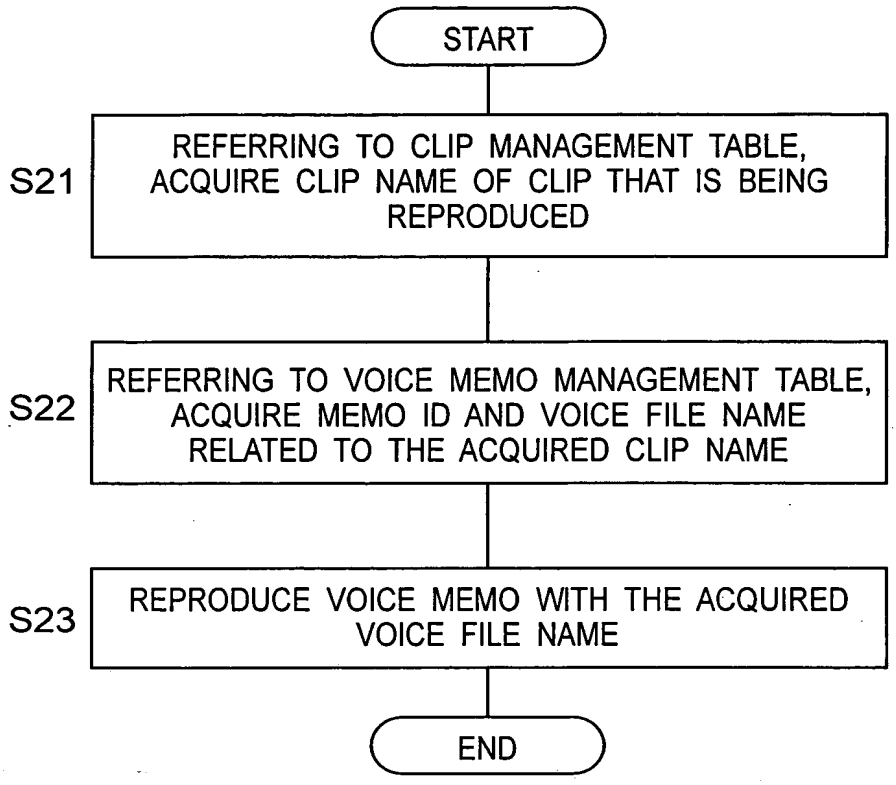

START
S21
REFERRING TO CLIP MANAGEMENT TABLE, ACQUIRE CLIP NAME OF CLIP THAT IS BEING REPRODUCED
S22
REFERRING TO VOICE MEMO MANAGEMENT TABLE, ACQUIRE MEMO ID AND VOICE FILE NAME RELATED TO THE ACQUIRED CLIP NAME
S23
REPRODUCE VOICE MEMO WITH THE ACQUIRED VOICE FILE NAME
END

Fig.7

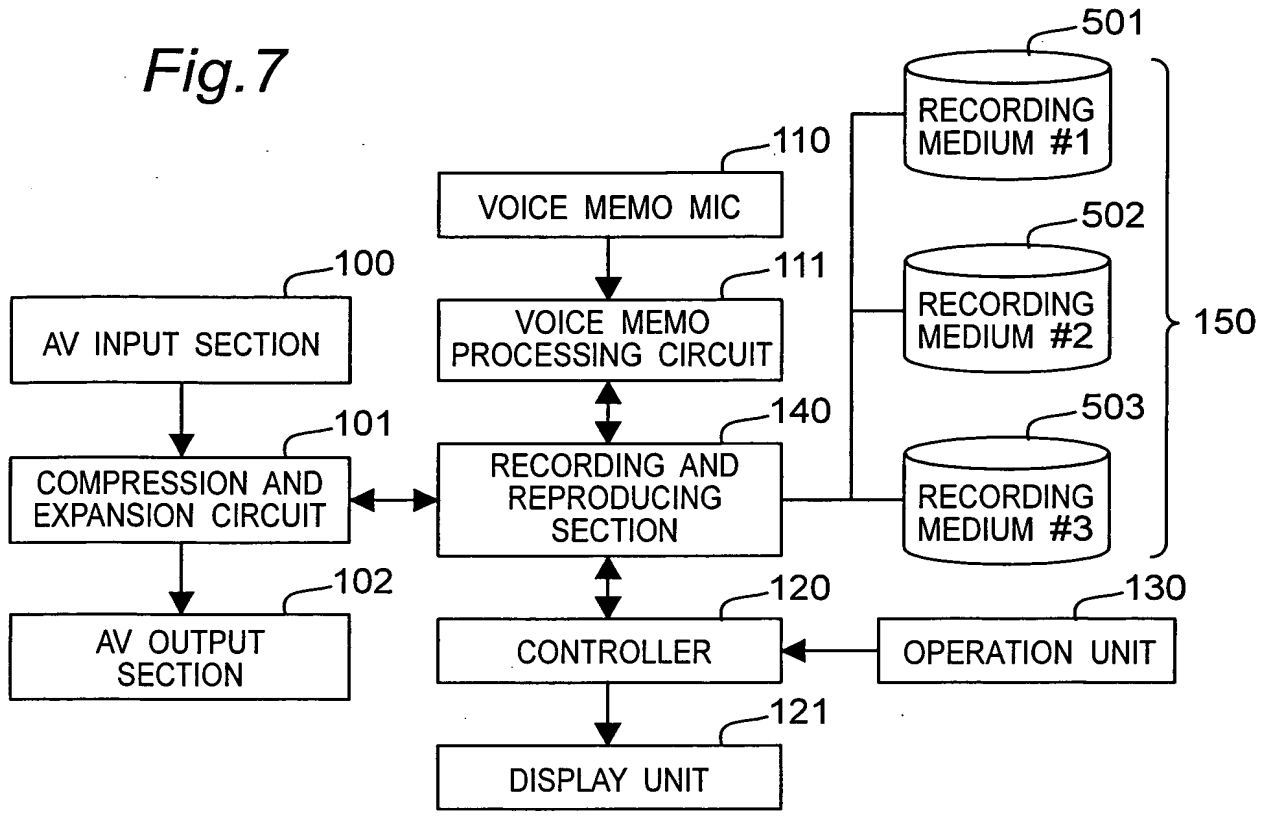

501
RECORDING MEDIUM #1
110
VOICE MEMO MIC
502
RECORDING MEDIUM #2
100
111
AV INPUT SECTION
VOICE MEMO PROCESSING CIRCUIT
150
101
140
503
COMPRESSION AND EXPANSION CIRCUIT
RECORDING AND REPRODUCING SECTION
RECORDING MEDIUM #3
102
120
130
AV OUTPUT SECTION
CONTROLLER
OPERATION UNIT
121
DISPLAY UNIT

Fig.8

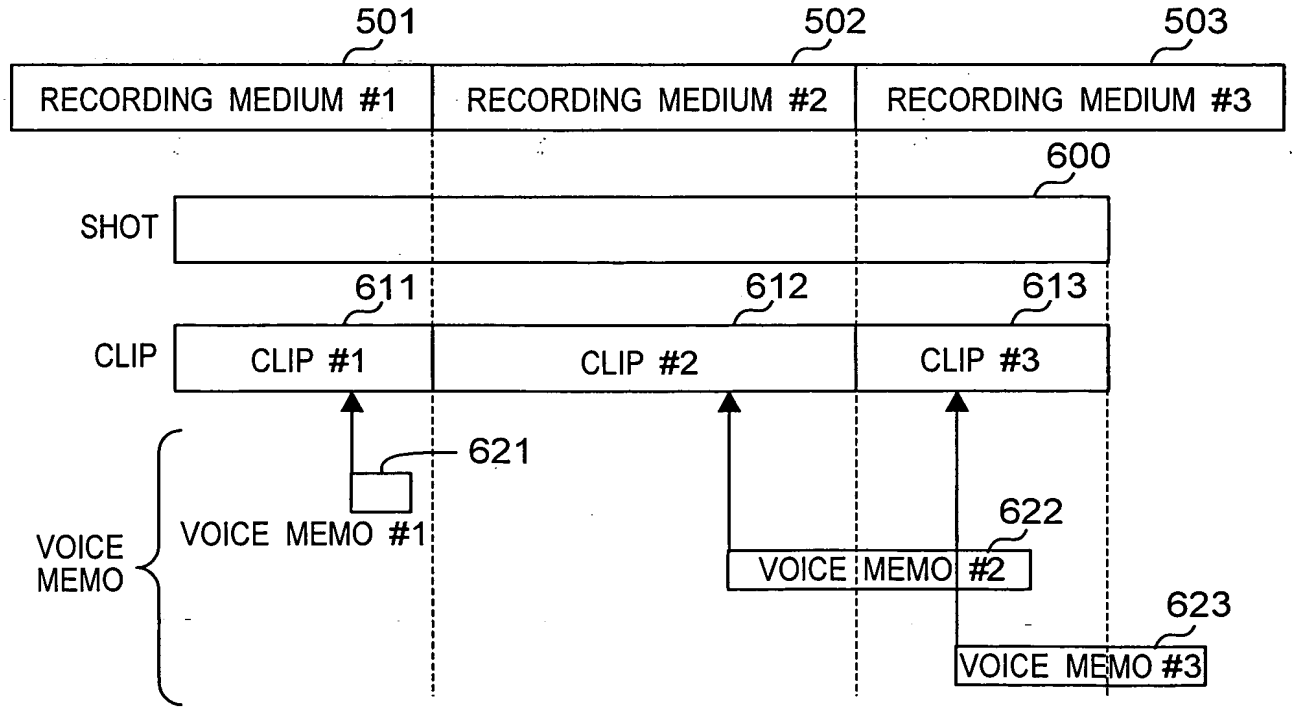

501
502
503
RECORDING MEDIUM #1
RECORDING MEDIUM #2
RECORDING MEDIUM #3
600
SHOT
611
612
613
CLIP
CLIP #1
CLIP #2
CLIP #3
621
VOICE MEMO
VOICE MEMO #1
622
VOICE MEMO #2
623
VOICE MEMO #3

Fig.9

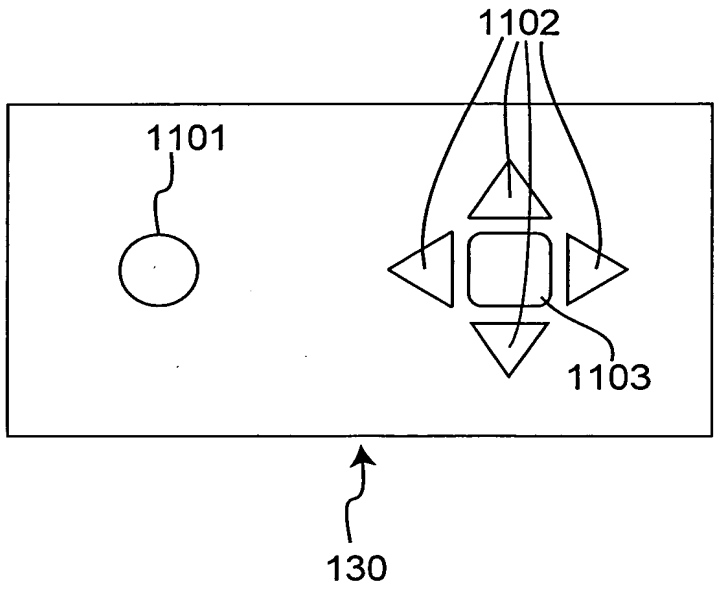


Fig.10

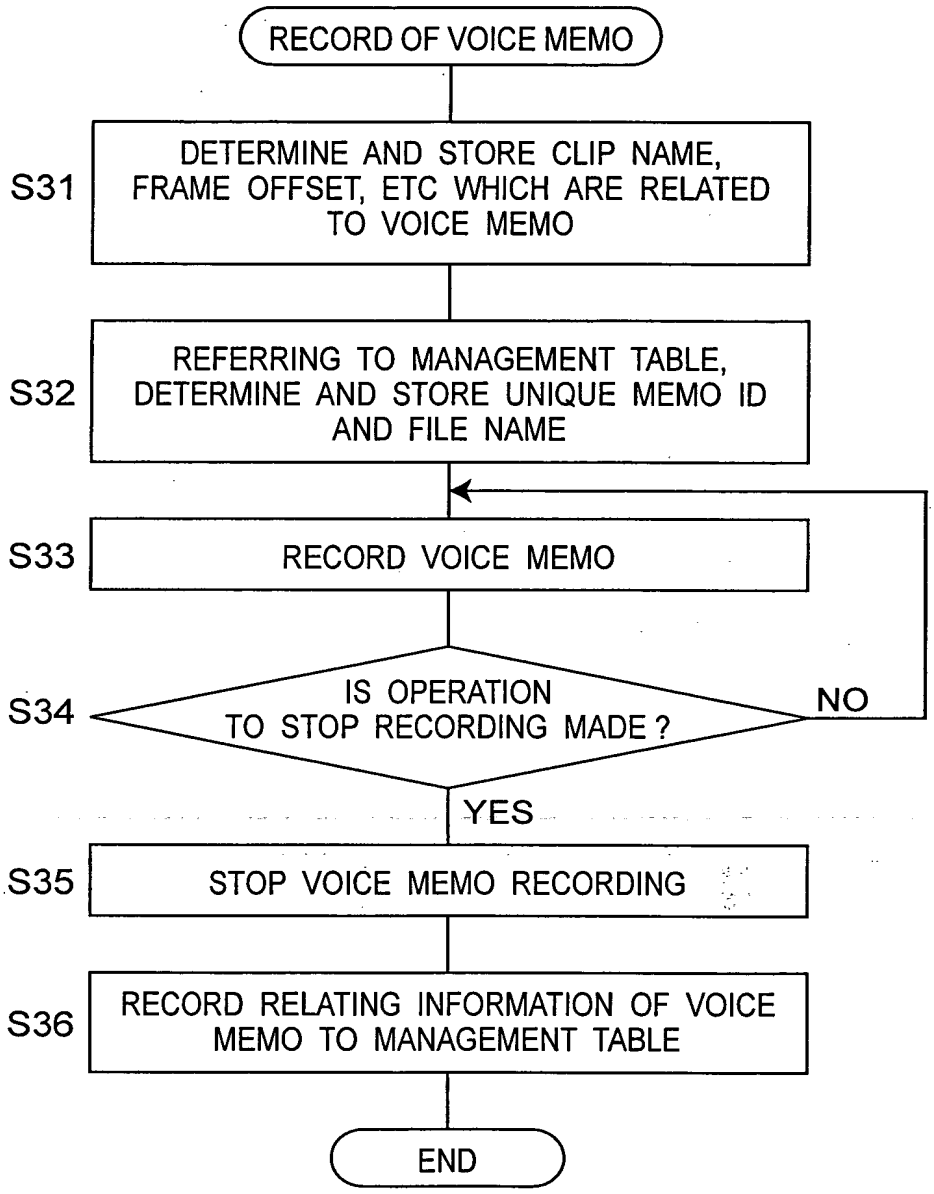

RECORD OF VOICE MEMO
S31
DETERMINE AND STORE CLIP NAME, FRAME OFFSET, ETC WHICH ARE RELATED TO VOICE MEMO
S32
REFERRING TO MANAGEMENT TABLE, DETERMINE AND STORE UNIQUE MEMO ID AND FILE NAME
S33
RECORD VOICE MEMO
S34
IS OPERATION TO STOP RECORDING MADE?
NO
YES
S35
STOP VOICE MEMO RECORDING
S36
RECORD RELATING INFORMATION OF VOICE MEMO TO MANAGEMENT TABLE
END

Fig.11

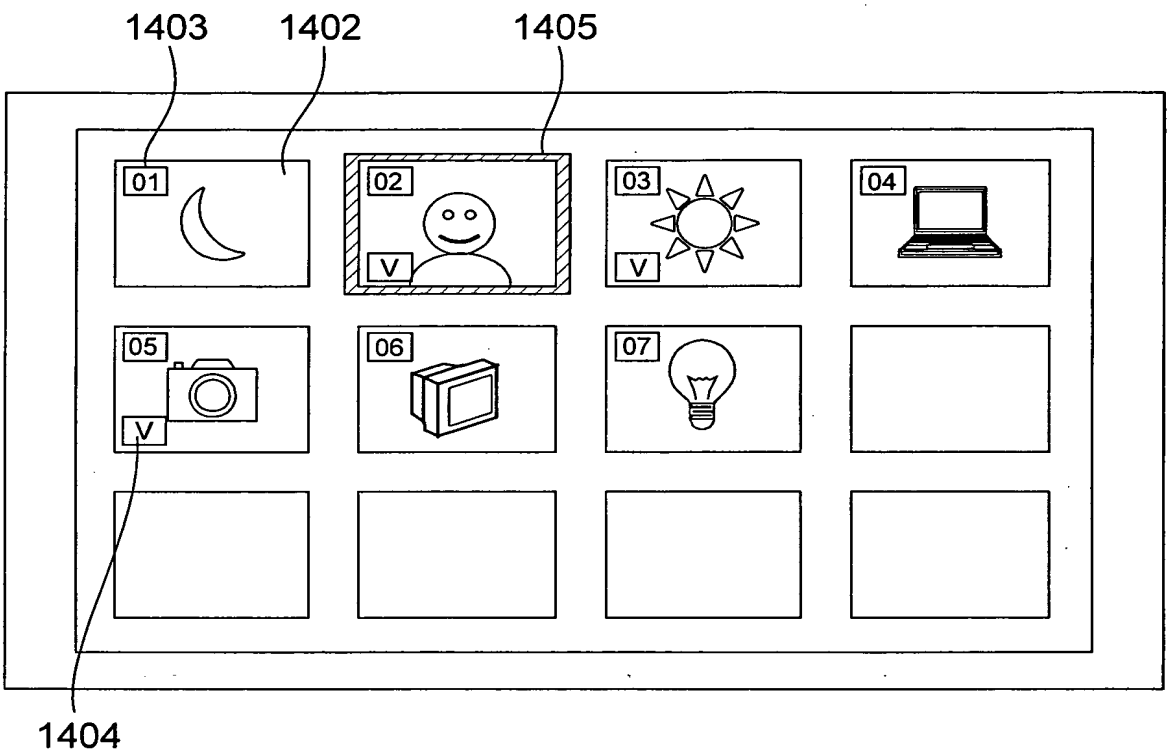


Fig.12

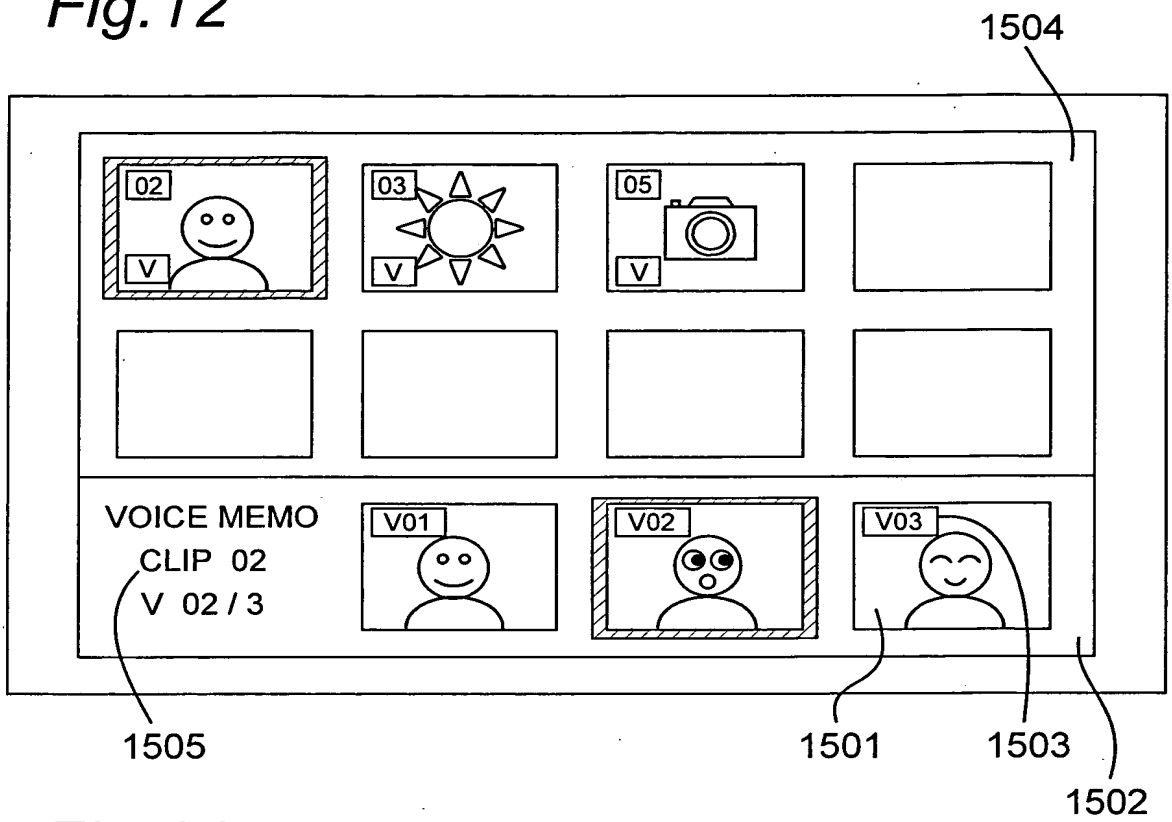

1504
02
V
03
V
05
V
VOICE MEMO
CLIP 02
V 02 / 3
V01
V02
V03
1505
1501
1503
1502

Fig.14

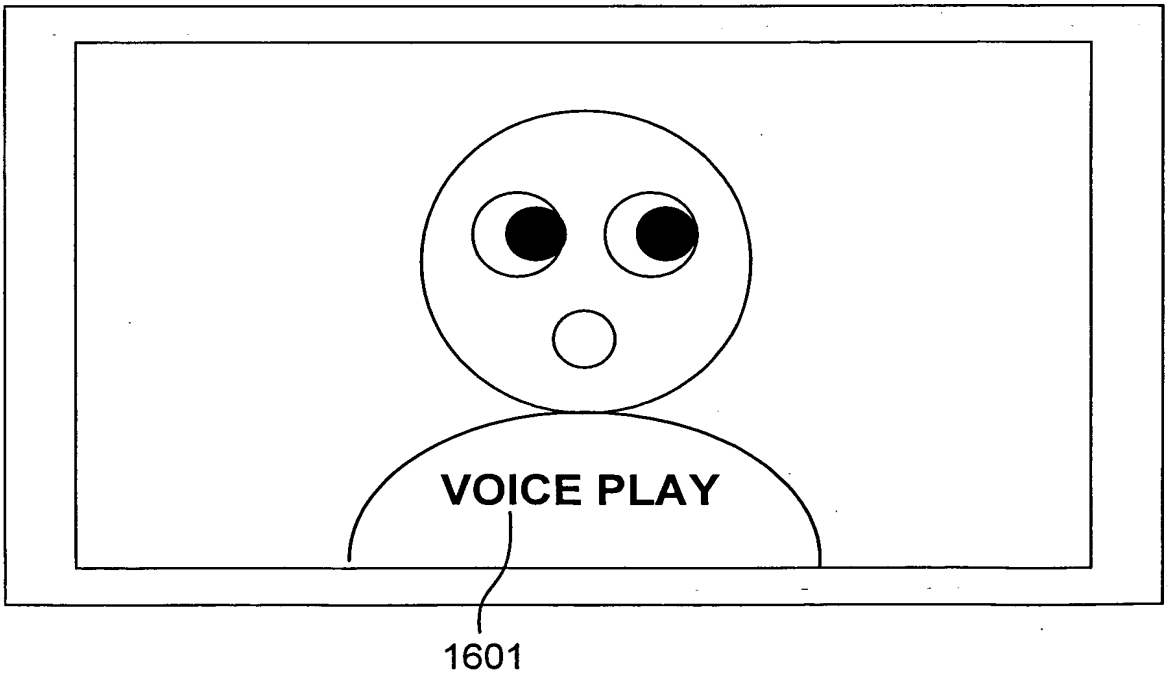

VOICE PLAY
1601

Fig.13

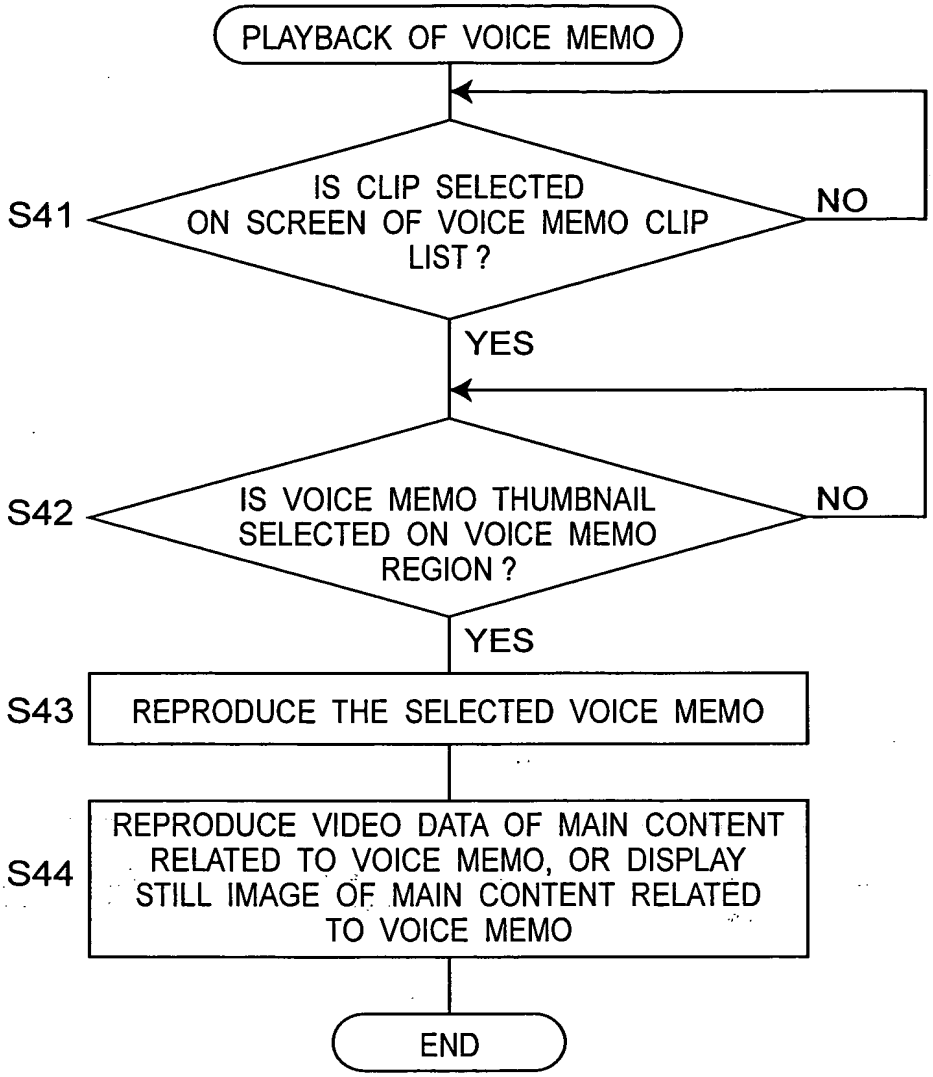
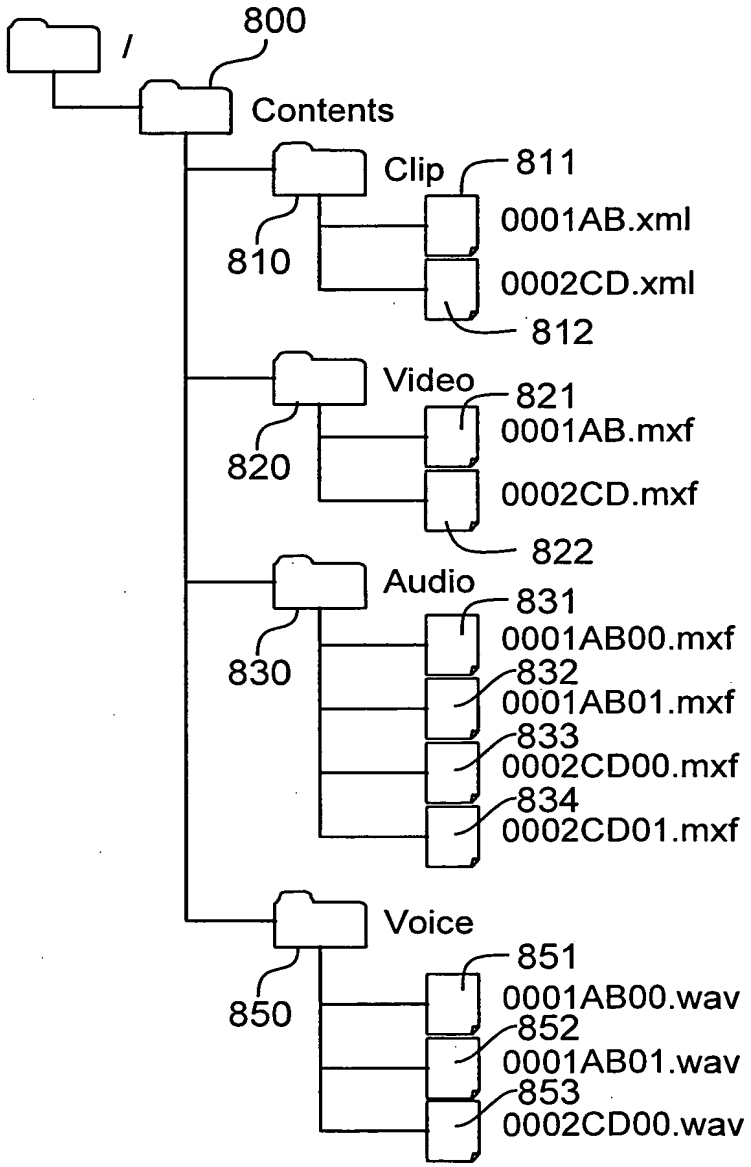

PLAYBACK OF VOICE MEMO
S41
IS CLIP SELECTED ON SCREEN OF VOICE MEMO CLIP LIST ?
NO
YES
S42
IS VOICE MEMO THUMBNAIL SELECTED ON VOICE MEMO REGION ?
NO
YES
S43
REPRODUCE THE SELECTED VOICE MEMO
S44
REPRODUCE VIDEO DATA OF MAIN CONTENT RELATED TO VOICE MEMO, OR DISPLAY STILL IMAGE OF MAIN CONTENT RELATED TO VOICE MEMO
END

Fig.15


/
800
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Clip
811
0001AB.xml
810
0002CD.xml
812
Video
821
0001AB.mxf
820
0002CD.mxf
822
Audio
831
0001AB00.mxf
830
832
0001AB01.mxf
833
0002CD00.mxf
834
0002CD01.mxf
Voice
851
0001AB00.wav
850
852
0001AB01.wav
853
0002CD00.wav

Fig.16

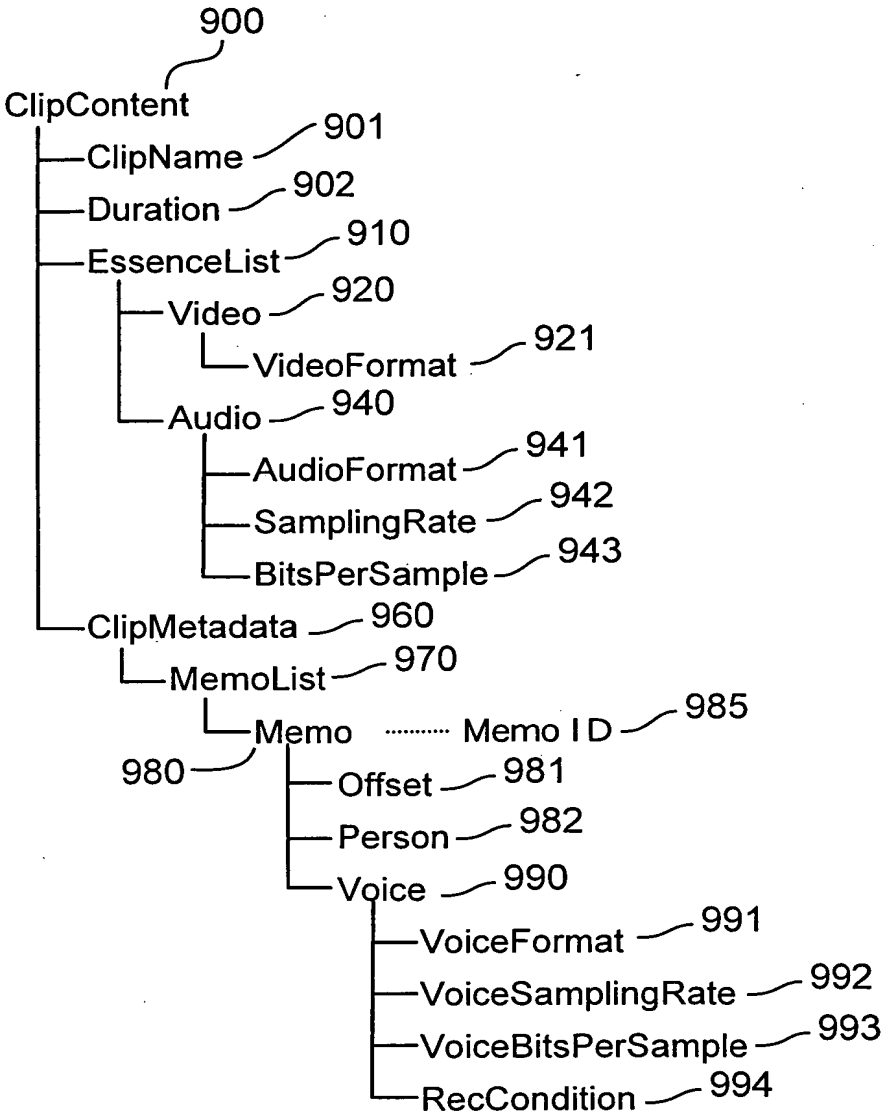
900
ClipContent
ClipName
901
Duration
902
EssenceList
910
Video
920
VideoFormat
921
Audio
940
AudioFormat
941
SamplingRate
942
BitsPerSample
943
ClipMetadata
960
MemoList
970
Memo
Memo ID
985
980
Offset
981
Person
982
Voice
990
VoiceFormat
991
VoiceSamplingRate
992
VoiceBitsPerSample
993
RecCondition
994

Fig.17

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        </Audio>
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            <BitsPerSample>16</BitsPerSample>
        </Audio>
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                <Voice>
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                    <VoiceSamplingRate>12000</VoiceSamplingRate>
                    <VoiceBitsPerSample>16</VoiceBitsPerSample>
                    <RecCondition>STILL</RecCondition>
                </Voice>
            </Memo>
            <Memo MemoID="1">
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                <Person>UserName2</Person>
                <Voice>
                    <VoiceFormat>WAV</VoiceFormat>
                    <VoiceSamplingRate>12000</VoiceSamplingRate>
                    <VoiceBitsPerSample>16</VoiceBitsPerSample>
                    <RecCondition>PLAY</RecCondition>
                </Voice>
            </Memo>
        </MemoList>
    </ClipMetadata>
</ClipContent>
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